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**AMENDMENTS TO THE CLAIMS** 

This listing of claims will replace all prior versions and listings of claims in the

application:

**LISTING OF CLAIMS:** 

1-32. (canceled).

33. (currently amended): An expression vector,

comprising: (a) a first coding region encoding a peptidyl-prolyl cis-trans

isomerase (PPIase) having molecular chaperone activity, and

(b) a region having at least one restriction enzyme site in which a second coding

region encoding a desired protein can be inserted,

wherein the PPIase is archaebacterial FKBP-type PPIase.

34. (previously presented): The expression vector according to claim 33,

wherein the first coding region is operatively linked to a promoter, and the

restriction enzyme site is in the same reading frame as the first coding region, and is

downstream of the first coding region.

35. (currently amended): The expression vector according to claim 33,

which has a region between the first coding region and the region having at least

one restriction enzyme site in which a second coding region can be inserted, wherein the

region encodes a protease digestion site in the same reading frame as (a) and (b)encoding

a protease digestion site in the same reading frame as the first and second coding regions.

36. (previously presented): An expression vector,

wherein a second coding region encoding a desired protein is inserted into the

expression vector according to claim 33.

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37. (canceled): The expression vector according to claim 33, wherein the PPIase having molecular chaperone activity is FKBP-type PPIase.

- 38. (withdrawn): The expression vector according to claim 33, wherein the PPIase having molecular chaperone activity is cyclophilin-type PPIase.
- 39. (withdrawn): The expression vector according to claim 33, wherein the PPIase having molecular chaperone activity is parvulin-type PPIase.
- 40. (canceled): The expression vector according to claim 37, wherein the FKBP-type PPIase is archaebacterial FKBP-type PPIase.
- 41. (currently amended): The expression vector according to claim 4033, wherein the archaebacterial FKBP-type PPIase is short type FKBP-type PPIase.
- 42. (previously presented): The expression vector according to claim 33, wherein the PPIase having molecular chaperone activity comprises an IF domain and/or a C-terminal domain of archaebacterial FKBP-type PPIase.
- 43. (withdrawn): The expression vector according to claim 37, wherein the FKBP-type PPIase is trigger factor-type PPIase.
- 44. (withdrawn): The expression vector according to claim 33, wherein the PPIase having molecular chaperone activity comprises a N-terminal domain and/or a C-terminal domain of trigger factor-type PPIase.
- 45. (withdrawn): The expression vector according to claim 37, wherein the FKBP-type PPIase is FkpA-type PPIase.
- 46. (withdrawn): The expression vector according to claim 33,

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wherein the PPIase having molecular chaperone activity comprises a N-terminal domain of FkpA-type PPIase.

- 47. (withdrawn): The expression vector according to claim 37, wherein the FKBP-type PPIase is FKBP52-type PPIase.
- 48. (withdrawn): The expression vector according to claim 33, wherein the PPIase having molecular chaperone activity comprises a C-terminal domain of FKBP52-type PPIase.
- 49. (withdrawn): The expression vector according to claim 38, wherein the cyclophilin-type PPIase is CyP40-type PPIase.
- 50. (withdrawn): The expression vector according to claim 33, wherein the PPIase having molecular chaperone activity comprises a C-terminal domain of CyP40-type PPIase.
- 51. (withdrawn): The expression vector according to claim 39, wherein the parvulin-type PPIase is SurA-type PPIase.
- 52. (withdrawn): The expression vector according to claim 33, wherein the PPIase having molecular chaperone activity comprises a N-terminal domain of SurA-type PPIase.
- 53. (previously presented): The expression vector according to claim 36, wherein the second coding region has a nucleotide sequence encoding a monoclonal antibody.
- 54. (previously presented): The expression vector according to claim 36, wherein the second coding region has a nucleotide sequence encoding a membrane protein.

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55. (currently amended): A host,

which contains the expression vector according to claim 33, wherein the host is selected from the group consisting of a bacterium, a yeast, a fungus, a plant, an insect cell, and a mammalian cell.

- 56. (previously presented): The host according to claim 55, which is Escherichia coli.
- 57. (withdrawn): A fused protein,
  which comprises PPIase having molecular chaperone activity and a desired protein.
- 58. (withdrawn): The fused protein according to claim 57,
  which comprises a protease digestion site between PPIase having molecular
  chaperone activity and a desired protein.
- 59. (currently amended): A process for producing a fused protein comprising PPIase having molecular chaperone activity and a desired protein,

comprising culturing a host cell transformed with the expression vector of claim 33-36 to express the fused protein.

60. (currently amended): The process for producing a fused protein according to claim 59,

which comprises culturing a host the host cell containing the expression vector under conditions suitable for of expression of the expression vector, and expressing to produce the fused protein in a cytoplasm of said host cell.

61. (previously presented): The process for producing a fused protein according to claim 59,

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which comprises providing a region being transcribed and translated to be a signal sequence at a 5' terminus of the first coding region or a 3' terminus of the second coding region of the expression vector, and culturing a host containing the expression vector under condition of expression of the expression vector to express the fused protein in the periplasm or a medium.

62. (currently amended): The A process for producing a fused protein according to claim 59, comprising *in vitro* transcription and translation of

which comprises culturing a host cell transformed with the expression vector of claim 36, to express the fused protein in a cell-free translation system using a bacteria extract or a eukaryotic extract.

63. (currently amended): The process for producing a fused protein according to claim 59,

wherein the fused protein is adsorbed on a carrier harboring bound to a macrolide, cyclosporine, juglone, or a compound which inhibits PPIase activity, wherein said carrier is recovered and the fused protein is recovered from the carrier.

64. (currently amended): A process for producing a desired protein,

which comprises digesting the <u>a</u> fused protein comprising the <u>a</u> protease digestion site obtained by the process according to claim 59, with a protease digesting <u>a that digests</u> the protease digestion site.

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